

hR1Z	60	ATETLA	EVPE	HVLRCL	PEEV	RLFPSA	VDKT	RIGWAT	KPI	LKCKK	FGPFV
rR1Z	59	ATETLA	EVPE	HVLRCL	PEEV	RLFPSA	VDKT	RIGWAT	KPI	LKCKK	FGPFV
Consensus	60	ATETLA	EVPE	HVLRCL	PEEV	RLFPSA	VDKT	RIGWAT	KPI	LKCKK	FGPFV
hR1Z	120	GNVYME	VY	PNLGM	CIDA	TOPEK	GNWLR	YVMACS	GEE	QNLFP	LEINR
rR1Z	119	GNVYME	VY	PNLGM	CIDA	TOPEK	GNWLR	YVMACS	GEE	QNLFP	LEINR
Consensus	120	GNVYME	VY	PNLGM	CIDA	TOPEK	GNWLR	YVMACS	GEE	QNLFP	LEINR
hR1Z	180	AIYYKT	LKPI	APGEEL	LVWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSS	PKSRK
rR1Z	179	AIYYKT	LKPI	APGEEL	LVWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSS	PKSRK
Consensus	180	AIYYKT	LKPI	APGEEL	LVWY	NGEDN	PEIAA	AIEEER	ASAR	SKRSS	PKSRK
hR1Z	240	KGNKIQ	DIQL	KISE	DTFA	NMR	ISA	EGPK	ED	EP	ASA
rR1Z	239	KGIRTH	PTQL	KISE	DTFA	NMR	ISA	EGPK	ED	EP	ASA
Consensus	240	KGNKIQ	DIQL	KISE	DTFA	NMR	ISA	EGPK	ED	EP	ASA
hR1Z	300	TPPA	EP	EP	EP	EP	EP	EP	EP	EP	EP
rR1Z	295	TPPA	EP	EP	EP	EP	EP	EP	EP	EP	EP
Consensus	300	TPPA	EP	EP	EP	EP	EP	EP	EP	EP	EP
hR1Z	360	NE	KE	PEI	RC	EP	K	P	ED	LL	EE
rR1Z	355	NE	KE	PEI	RC	EP	K	P	ED	LL	EE
Consensus	360	NE	KE	PEI	RC	EP	K	P	ED	LL	EE

FIGURE 1A

hR1Z	PCQHCEKFT	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FC	TQINRRRHER	RHE	CLKR	P	420				
rR1Z	PCQHCEKFP	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FC	TQINRRRHER	RHE	CLKR	P	415				
Consensus	PCQHCEKFT	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FC	TQINRRRHER	RHE	CLKR	P	420				
hR1Z	STLQSED	ADGRAS	GENV	PSKD	SSPPS	LC	DCLI	NS	ESQ	TINS	SV	480			
rR1Z	STLQSEDP	EDGX	GENV	PSKD	SSPPQ	LC	DCLI	NS	ESQ	EVINS	SV	473			
Consensus	STLQSED	DGX	GENV	SKD	SSPP	LC	DCLI	NS	ESQ	NS	SV	480			
hR1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRKCG	LEE	POPPAE	QADAT	QNVV			539				
rR1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRKCG	LEE	POPPAE	QAPPS	QNVV			533				
Consensus	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRKCG	LEE	POPPAE	QADAT	QNVV			540				
hR1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNY	IDGKIQTNN	TSNCDVIEHE	SSA	LYGIN				599				
rR1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNY	IDGKIQTNS	TSNCDVIEHE	SSA	LYCID				593				
Consensus	PSTEPEEEGE	DDVYIMDIS	SNISENLNY	IDGKIQTN	TSNCDVIEHE	SSA	LYGI				600				
hR1Z	CLLTPVTVEI	TONIK	TQVP	VT	DL	REPL	QSTN	SE	KKR	RTASPP	LPK	IK	ET	SDPH	659
rR1Z	CLLTPVTVEI	TONIK	TQVS	VT	DL	MDSP	SSTN	SE	KKR	RTASPP	LPK	IK	ET	ESDST	653
Consensus	CLLTPVTVEI	TONIK	TQV	VT	DL	M	STN	SE	KKR	RTASPP	LPK	IK	ET	SD	660
hR1Z	VPSCSLSLPL	SIST	EVVSF	HKEK	EVYLS	KLKQLLOTQD	KLTP	PAC	ISA	TEIP	KLGPVC				719
rR1Z	VPSCSLSLPL	SIST	EVVSF	HKEK	EVYLS	KLKQLLOTQD	KLTP	PAC	ISA	TEIP	KLGPVC				713
Consensus	VPSCSLSLPL	SIST	EVVSF	HKEK	EVYLS	KLKQLLOTQD	KLTP	PAC	ISA	TEIP	KLGPVC				720

FIGURE 1B



hR1Z	LSA	SSVSS	CONLEASLP	ISFKQEE	EN	EGLKP	EEEPQ	SABED	WVQ	ETF	KNF	CN	1138
rR1Z	LSA	SSVSS	CONLEASLP	VTFKQEE	ES	EGLKP	EEEP	PACQES	WVQ	ETF	KNF	CN	1126
Consensus	LSA	SSVSS	CONLEASLP	FKQEE	E	EGLKP	EE	A	Q	WVQ	ETF	KNF	1140
hR1Z	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFL	LHGV	GNIFVCSVCK			1198
rR1Z	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFL	LHGV	GNIFVCSVCK			1186
Consensus	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VOLF	KTDL	SEHRFL	LHGV	GNIFVCSVCK			1200
hR1Z	KEFA	FLCNLQ	QHORDLHPD	K	VCTHIEFESC	TLRPQNFTDP	SKA	VEHM	S	LPE	PLETSK		1258
rR1Z	KEFA	FLCNLQ	QHORDLHPD	E	VCTHIEFESC	TLRPQNFTDP	SKA	VEHM	S	LPE	PLETSR		1246
Consensus	KEFA	FLCNLQ	QHORDLHPD		VCTHIEFESC	TLRPQNFTDP	SKA	VEHM	S	LPE	PLETS		1260
hR1Z	EEE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPPFQYHH	RNPMGIGVTA					1318
rR1Z	EEE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPPFQYHH	RNPMGIGVTA					1305
Consensus	EEE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPPFQYHH	RNPMGIGVTA					1320
hR1Z	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1378
rR1Z	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1365
Consensus	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMPE	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV						1380
hR1Z	QPKNG	VWVLD	NSGKNAFRM	QPKRL	FEV	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN		1438
rR1Z	QPKNG	VWVLD	NSGKNAFRM	QPKRL	FV	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN		1425
Consensus	QPKNG	VWVLD	NSGKNAFRM	QPKRL	FV	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN		1440

FIGURE 1D

hRIZ	1498	KS	AKQKADLK	NAC	SSSHIC	PYC	REFTYI	GSLNKHAAFS	CPKKPLSP	PK	KVSHSSKKC			
rRIZ	1485	RA	AKQKADLR	DT	SSSHIC	PYC	REFTYI	GSLNKHAAFS	CPKKPLSP	PK	KVSHSSKKC			
Consensus	1500		AKQKADL		SSSHIC	PYC	REFTYI	GSLNKHAAFS	CPKKPLSP	K	KVSHSSKKC			
hRIZ	1558	CH	SPASSDK	NS	NSNHRRRT	AD	EIKMOS	PLCKTRAR	SECTO	LP	SSSFRSQNV			
rRIZ	1545	CH	SPASSDR	NS	NSCHRRRT	AD	EIKMQST	PLCKTRAR	SECTO	LP	SSSFRSQNV			
Consensus	1560	CH	SPASSD	NS	NS	RRRT	AD	EIKMQS	PLCKTRAR	S	LP	SSSFRSQNV		
hRIZ	1618	K	FAASVKSKK	P	SSSSLRNSS	PIRMAKITHV	EGKKPKAVAK	NSAQLSSK	SR	LHVRVQK				
rRIZ	1605	K	FAASVKSKK	P	SSSSLRNSS	PIRMAKITHV	EGKKPKAVAK	NSAQLSSK	SR	LHVRVQK				
Consensus	1620	K	FAASVKSKK	P	SSSSLRNSS	PIRMAKITHV	EGKKPKAVAK	NSAQLSSK	SR	LHVRVQK				
hRIZ	1678	SK	AVQSKST	L	ASKRTDRF	NI	KSRERSG	P	TRSLQLAA	AADLSE	RE	D	SA	ELKD
rRIZ	1665	SK	AVQSKTA	L	ASKRTDRF	NI	KSRERSG	P	TRSLQLAA	AADLSE	RE	D	SA	ELKD
Consensus	1680	SK	AVQSK	L	ASKRTDRF	NI	KSRERSG	P	TRSLQLAA	AADLSE	RE	D	SA	ELKD
hRIZ	1719	FS	YSLRLASR	C	SPPA	YIT	RQ	RKVKA	A	AT	FOGPF	K	E	
rRIZ	1707	FS	YSLRLASR	C	SPPA	YIT	RQ	RKVKA	A	AT	FOGPF	K	E	
Consensus	1722	FS	YSLRLASR	C	SPPA	YIT	RQ	RKVKA	A	AT	FOGPF	K	E	

FIGURE 1E

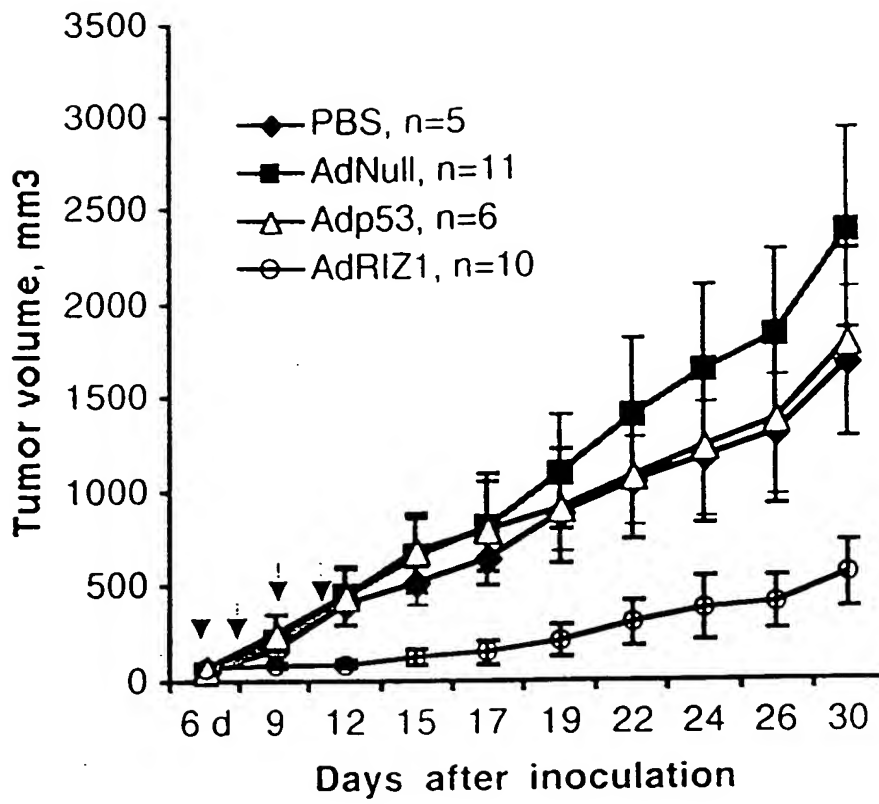


FIGURE 2

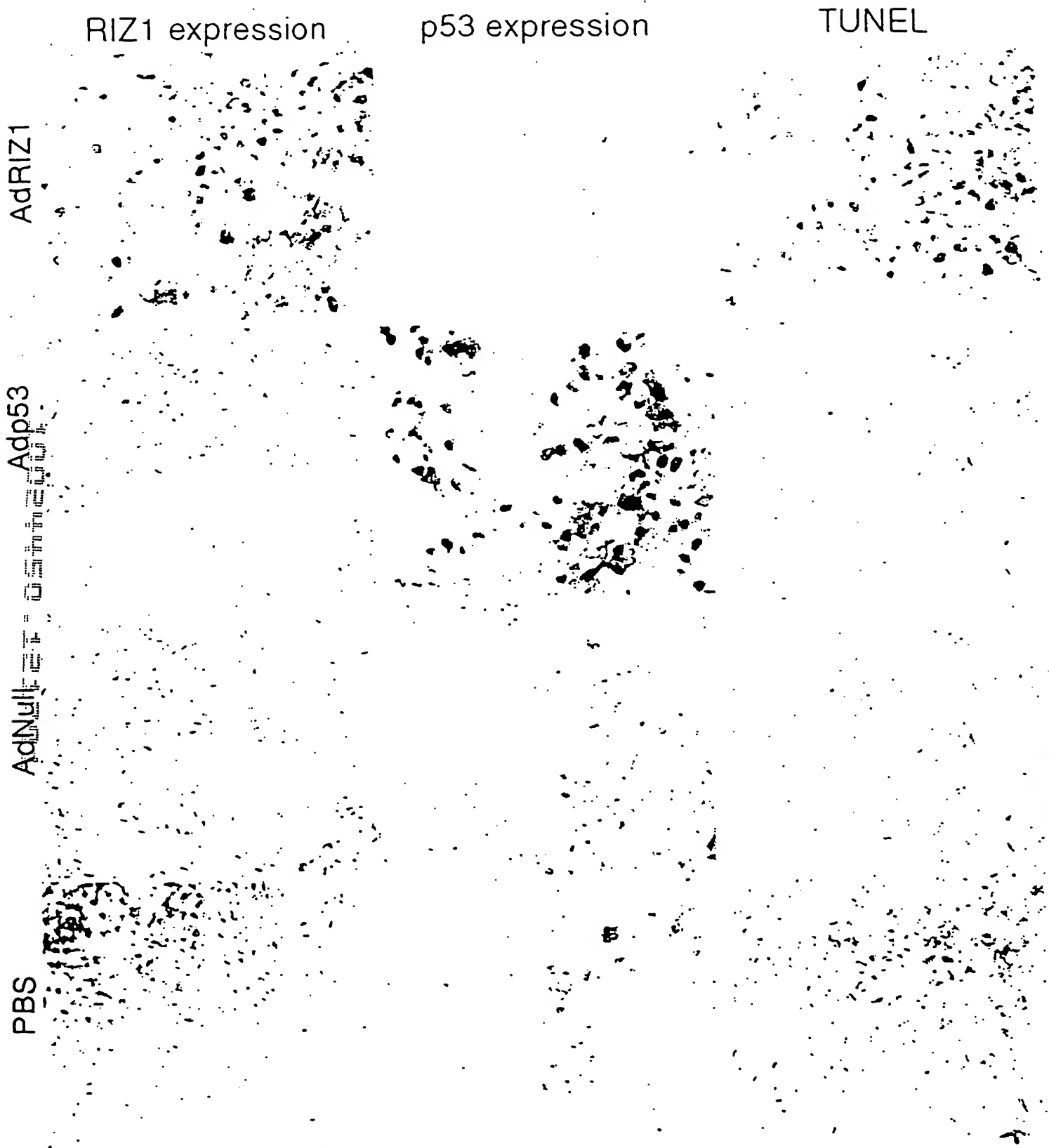


FIGURE 3